

08-14-01

A

New Continuation of Patent Application of
U.S. Patent Application No. 09/251,890

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Peter C. Van Buskirk, et al.

Title:

"SCALABLE LEAD ZIRCONIUM TITANATE
(PZT) THIN FILM MATERIAL AND
DEPOSITION METHOD, AND
FERROELECTRIC MEMORY DEVICE
STRUCTURES"

Application No.:

New Division of Prior Copending U.S. Patent
Application No. 09/251,890

Prior Application Filing Date:

February 19, 1999

Prior Application Group Art Unit:

2822

Prior Application Examiner:

J. Brophy

EXPRESS MAIL CERTIFICATE

It hereby is certified by the person identified below that the attached documents are being mailed by such person to the
Asst. Commissioner for Patents on the date specified, in an envelope addressed to the Asst. Commissioner for Patents,
Washington, DC 20231, and Express Mailed under the provisions of 37CFR 1.10.

Lee Ann DiLello

Name of Person Mailing This Paper



Signature

August 13, 2001

Date of Mailing

EL899899513us

Express Mail Label Number

**FILING OF NEW CONTINUATION OF UNITED STATES PATENT APPLICATION
UNDER 37 CFR § 1.53(b) BASED ON AND CLAIMING PRIORITY OF
U.S. APPLICATION NO. 09/251,890 FILED FEBRUARY 19, 1999**

Assistant Commissioner for Patents

Box: Patent Application

Washington, DC 20231

Sir:

This is a request for filing a ☐ Continuation ☒ Divisional application under 37 CFR §
1.53(b), of pending prior Application No. 09/251,890, filed on February 19, 2001 entitled

**"SCALABLE LEAD ZIRCONIUM TITANATE (PZT) THIN FILM MATERIAL AND
DEPOSITION METHOD, AND FERROELECTRIC MEMORY DEVICE
STRUCTURES"**

1. ☒ Enclosed is a copy of the latest inventor-signed prior application, including a copy of the oath or declaration showing the original signature or an indication it was signed. I hereby verify that the papers are a true and exact copy of the latest signed prior application number 09/251,890, filed February 19, 2001, and further that all statements made herein of my own knowledge are true; and further that these statements were made with the knowledge that willful false statements and the like are made punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issuing therefrom.

The filing fee is calculated below:

CLAIMS AS FILED IN THE APPLICATION, LESS
ANY CLAIMS CANCELED BY AMENDMENT BELOW:

Basic Fee =							\$710 (*\$355)
Total Claims:	<u>26</u>	-	<u>20</u>	=	<u>6</u>	x \$18 (*\$9) =	\$ <u>108.00</u>
Independent Claims:	<u>4</u>	-	<u>3</u>	=	<u>1</u>	x \$80 (*\$40) =	\$ <u>80.00</u>
Total Filing Fee:							\$ <u>898.00</u>

[*Charges for Small Entity]

2. ☐ A statement to establish small entity status under 37 CFR § 1.9 and § 1.27 was filed in prior application number _____ and such status is still proper and desired (37 CFR § 1.28(a)).
3. ☒ The Commissioner is hereby authorized to charge any fees which may be required under 37 CFR § 1.16 and § 1.17, or credit any overpayment, to Deposit Account No. 50-0860. A duplicate copy of this sheet is enclosed.
4. ☐ A check in the amount of \$898.00 enclosed.
5. ☒ Cancel in this application original claims 1-37, of the prior application before calculating the filing fee. (At least one independent claim is retained for filing purposes.)
6. ☒ The inventor(s) of the invention being claimed in this application is (are): Peter C. Van Buskirk, Jeffrey F. Roeder, Steven M. Bilodeau, Michael W. Russell, Stephen T. Johnston, Daniel J. Vestyck, Thomas H. Baum.

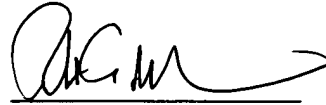
7. ☐ This application is being filed by less than all the inventors named in the prior application. In accordance with 37 CFR 1.53(b)(1), the Commissioner is requested to delete the name(s) of the following person or persons who are not inventors of the invention being claimed in this application:
8. ☒ Amend the specification by inserting before the first line the sentence: ☐
"This is a ☒ continuation ☐ division of U.S. Application No. 09/251,890.
9. ☒ New formal drawings are enclosed: (Figures 1-13).
10. ☐ Priority of foreign application(s) No. _____ filed on _____ in _____ is claimed under 35 U.S.C. § 119.
- ☐ The certified copy was filed in prior Application No. _____ on _____.
- ☐ A certified copy of the above corresponding foreign application is filed herewith.
11. ☒ A preliminary amendment is enclosed.
12. ☒ The prior application is assigned of record to Advanced Technology Materials, Inc. recorded at Reel 9793, Frame 0595.
13. ☒ An Information Disclosure Statement is enclosed.
14. ☒ The power of attorney in the prior application is to Oliver A. Zitzmann, Reg. No. 38,691; and Steven J. Hultquist, Registration No. 28,021.
- ☒ a. The power appears in the original papers in the prior application.
- ☐ b. Since the power does not appear in the original papers, a copy of the power in the prior application is enclosed.

☒ c. Address all future communications to:

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Danbury, CT 06810

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Respectfully submitted,



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re United States Patent Application of:)
)
Applicant: Van Buskirk et al.)
)
Serial No.: New Continuation of Prior)
Copinging U.S. Patent)
Application No. 09/251,890)
)
Date Filed: July 12, 2001)
)
Title: Scalable lead Zirconium Titanate)
(PZT) Thin Film Material and)
Deposition Method, and Ferroelectric)
Memory Device Structures)
Comprising Such Thin Film Material)
High Density Ferroelectric Memory)
Device Structures)
)

Docket No.: ATMI-0357 DIV
Examiner: James Park
Art Unit: 2811

EXPRESS MAIL CERTIFICATE

I hereby certify that I am mailing the attached documents to the Commissioner for Patents on the date specified, in an envelope addressed to the Commissioner for Patents, Box AF, Washington, DC 20231, and Express Mailed under the provisions of 37 CFR 1.10.



Lee Ann DiLello

August 13, 2001

Date

EL899899513US

Express Mail Label Number

**PRELIMINARY AMENDMENT OF NEW CONTINUATION OF PRIOR
COPENDING U.S. PATENT APPLICATION NO. 09/251,890**